

ABSTRACT

Base station 11 transmits downlink signal A to mobile station 12A with wide directivity and transmits
5 downlink signal B to mobile station 12B with narrow directivity with an overlap with downlink signal A. Desreader 104 of mobile station 12B measures the reception power of downlink signal A and desreader 105 measures the reception power of downlink signal B. The
10 respective reception power measurement results are carried on uplink signal B by frame assembly section 106 and reported to base station 11. Base station 11 determines whether the directivity orientation is matched or not based on the transmission power ratio and
15 reception power ratio and controls the directivity and transmission power of the transmission signal based on the result. Thus, base station 11 precisely determines whether the transmission power and directivity of
20 downlink signal B are accurate or not and modifies the transmission power and directivity.